

- **Cross Application Time Sheet**
- InfoCubes
- 0CATS_C01: Time Sheet (Approved)
 0CATS_C02: Time Sheet (For Approval)
- MultiProvider
- 0CATS_MC1: Time Sheet (Total)
- Time Management
- DataStore Object
- ZPT_DS51: Clock In / Out Detail
- ZPT_DS53: Quota Time Data Detail from 0HR_PT_03
- InfoCubes
- ZPT_C51: Clock In / Out Analysis
- ZPT_C53: Quota Time Data from 0HR_PT_03



- there will be postings into FI through the Payroll objects are proposed interface. In order to report on these postings from a financial and cost center perspective the following BI In addition to the HR Business Content for SAP BI
- DataStore Objects
- ZFISL_051: Special Ledger Details
- InfoCube
- ZFISL_C51: Special Ledger Analysis
- 0COOM_C02: Costs and Allocations (Delta Extraction)





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- The design of each InfoProvider controls the level of detail and thus the number of records loaded and retained. A review of the design of each Business Content InfoProvider has lead to the definition of sizing parameters which can be used to perform a rough estimate of the number of data records in each InfoProvider.
- Since the sizing parameters affect the total number of records by varying degrees a sensitivity analysis was performed to identify the impact of each parameter on the total number of records.
- The results of this analysis shows that the factors that affect payroll detail have the greatest impact on the overall sizing of the system. These parameters are therefore key in developing an accurate sizing estimate.
- The logic behind each of the sizing parameter values follows can be seen in the next slide.

	57%	Number of days
	%0	Number of system users
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	0%	Average # authorization values per employee
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<i>i</i>	2%	Average # timetypes per month
	2%	Average # wage types per employee
	3%	Average # time quotas
	20%	Average # time events per day
	20%	%age on timeclock
	24%	Average # timetypes per day per employee
	26%	Average # cost objects per time entry per day
1	45%	Average # of PY posting lines per employee per cycle
	46%	Number of PY cycles
L	100%	Number of Employees
	Sensitivity	Parameter

57% STATE OF NORTH CAROLINA
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HR & PAYROLL

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Comments From License Agreement Usually 1 per day add 10% margin Usually 1 per day add 10% margin Medical, Dental, Life Insurance, 401k High School, Vocational Vacation, Sick, Working 1 in 5 has attended 2 schools Salary, 401k, Dental, Medical, Life Insurance, Fed Tax, State Tax, Local Tax, Social Security, Other Bi weekly MSS Users Vacation, Sick, Working Vacation, Sick, Bonus, Community Involvement 2 clock ins, 2 clock outs Classroom size 4 classes per week per organization Interim and Final		2	1000	15	4	25%	4	မ	360	11000	26	10	1.2	10	2	3	2	4	1	1.1	1.1	104500	Value
		Interim and Final	4 classes per week per organization	Classroom size	2 clock ins, 2 clock outs		Vacation, Sick, Bonus, Community Involvement	Vacation, Sick, Working		MSS Users	Bi weekly	Salary, 401k, Dental, Medical, Life Insurance, Fed Tax, State Tax, Local Tax, Social Security, Other	1 in 5 has attended 2 schools			Vacation, Sick, Working	High School, Vocational	Medical, Dental, Life Insurance, 401k		Usually 1 per day add 10% margin	Usually 1 per day add 10% margin	From License Agreement	Comments





ADD-UPL-M	ADD-DISK	ADD-USER-M	Element	Throughpu	DVV.	ADD-DISK-T	ADD-UP-M	Key capability	Throughpu	BW SERVER	SW component	Throughpu	BW 3.5	Throughpu	CPU cat. S	Throughput	Results	Work days	Project BI SIZING V3
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- Total User Count = 11,000
- Concurrent Power Users = 50 (1 per organization)
- 100% Exploration
- Concurrent Executive Users = 200 (4 per organization)
- 50% Analysis / 50% Pre Defined Reports
- Concurrent Information Consumers = 25% of 10,750 (remaining count) =
- 80% Pre Defined Reports / 20% Analysis
- Activity from 09:00 to 18:00 No Peak in Users
- Data Upload
- Nightly Upload in 3 hour window 01:00 to 04:00
- Annual Data Volume = 240,932,783 over 360 nights → 1,095,149 per load

Element A.P TI	Table 3: Ti	BW-POWER	BW-EXEC	BW-INFO	Element	Table 2: Ti
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DEACON HR & payroll

- InfoCubes 10 Years Total
- Assume 3
 year initial
 load with 7
 more years
 maintained in
 the cube.
- Cubes without initial load have 10 years (Payroll / Finance / Time).

Table 4:	The	<u>ug</u>	Ē	Definition	Table 4: Throughput - Definition of InfoCubes	ēs		
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- DataStore 10 Years Total
- finance Initial load will not include detailed transactional data for payroll or
- Remaining DataStore objects will grow marginally since they are based on number of active employees

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- using the Quicksizer tool: The following results were obtained for SAP BI sizing
- CPU 10,100 SAPS
- Memory 15,360 MB
- Disk 3,287,000 MB
- generated for a BW 3.5 system. It will be necessary for the hardware vendors to factor in any increase necessary for SAP BI 7.0 It should be noted that these sizing numbers were

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- financial data will be available for some of the InfoCubes / DataStore There is a potential that an initial data load of 30 years Objects particularly as it relates to detailed payroll and history is required. It is not expected that a full history
- InfoCubes / DataStore Objects
- For historical data assume 30 year initial load with an additional 5 years
- Assume 3 year initial load with 7 additional years
- InfoProviders without historical data will contain 10 years

DEACON HR & PAYROLL

InfoCubes

Table 4:	Thro	ugh	<u> </u>	Definition	Table 4: Throughput - Definition of InfoCubes	Ö		
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Data Upload:

173,402,900 Historical data records Loaded over 4 nights = 43,350,725 (load time 8hr / night)

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- using the Quicksizer tool: The following results were obtained for SAP BI sizing
- CPU 10,100 SAPS
- Memory 18.4 GB
- Disk 3,369 GB
- the hardware vendors to factor in any increase generated for a BW 3.5 system. It will be necessary for necessary for SAP BI 7.0 It should be noted that these sizing numbers were

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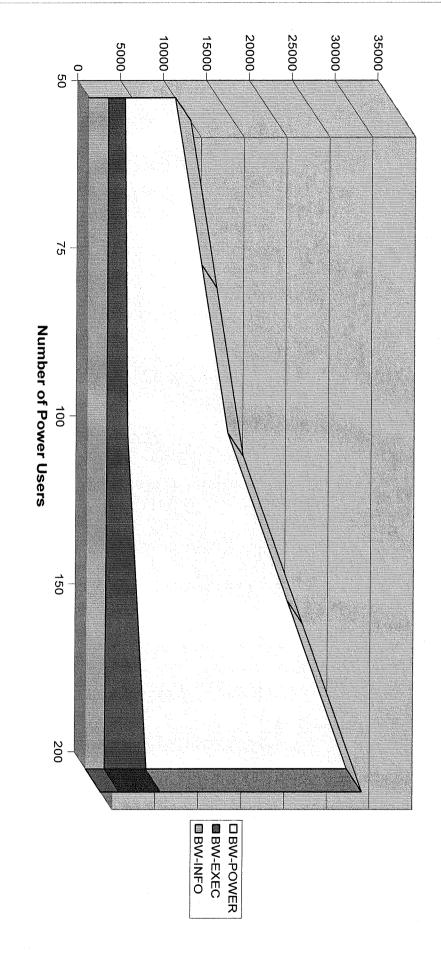


- therefore decided to perform additional sizing calculations for varying distributions of users amongst the three types: system is the number and type of end users (see earlier). It was The main factor that affects the CPU requirements for an SAP BI
- Information Consumer
- Executive User
- Power User
- The following table was used as input data into the Quick Sizer tool

200	500	2,575	200 Power Users
150	375	2,619	150 Power Users
100	250	2,663	100 Power Users
75	225	2,675	75 Power Users
50	200	2,688	Baseline
BW-POWER	BW-EXEC	BW-INFO	Description



BI Sizing User Analysis (SAPS)







ADD-UPL-M	ADD-DISK	ADD-USER-M	Element	Throughpa	BW	ADD-DISK-T	ADD-UP-M	Key capabili	Throughpu	BWSERVER	SW compon	Throughpu	Bw 35	Solution Re		×	CPU cat. S	Throughput	Results		Project BI FI
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- User Count = 12,725
- Concurrent Power Users = 100 (1 FI + 1 HR per organization)
- 100% Exploration
- Concurrent Executive Users = 400 (4 FI + 4 HR per organization)
- 50% Analysis / 50% Pre Defined Reports
- Concurrent Information Consumers = 25% of 11,775 (remaining count) = 2,944
- 80% Pre Defined Reports / 20% Analysis
- Activity from 09:00 to 18:00 No Peak in Users
- Data Upload
- Nightly Upload in 3 hour window 01:00 to 04:00
- Assume Data Volume is doubled with addition of FI
- Annual Data Volume = 481,865,566 over 220 nights $\rightarrow 2,180,288$ per load

O.	Table 3:	BWY-POWER	BW-EXEC	BACINEO	Element	Table 2:
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2.18	Table 3: Throughput - Data Upload to BW Server	100	400	2.944	AP TI Act BW users	Table 2: Throughput - Query & User Distribution
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the HR Disk Sizing. conservative factor of 2 was applied to the results of for the implementation of Financials in ERP 2005 a For the purposes of estimating additional data volume



- The following results were obtained for SAP BI sizing using the Quicksizer tool:
- CPU 8,000 SAPS
- Memory .5 GB
- Disk -3,287 GB (double HR/PY)
- generated for a BW 3.5 system. It will be necessary for the hardware vendors to factor in any increase necessary for SAP BI 7.0 It should be noted that these sizing numbers were

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DEACON HR & PAYROLL

- HCM Baseline sizing
- CPU 10,100 SAPS
- Memory 15.4 GB
- Disk 3,287 GB
- **HCM Historical Sizing**
- CPU 10,100 SAPS (no impact CPU determined by users)
- Memory 18.4 GB (increase due to initial data load volume)
- Disk 3,369 GB (only minor increase as detailed payroll and financial data is not considered)
- HCM User Distribution
- Baseline 10,100 SAPS
- 75 Power Users 13,300 SAPS
- 100 Power Users 16,400 SAPS
- 150 Power Users 23,500 SAPS
- 200 Power Users 30,500 SAPS



- BI Financial incremental sizing
- CPU 8,000 SAPS (increased due to power / exec users)
- Memory .5 GB (increased due to power / exec users)
- Disk 3,287 GB (assumed double)